

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/01/03

Date Received: 04/11/03

Project: Metro Self Monitor, PO# M69811, F&BI 304112

Date Extracted: 04/30/03

Date Analyzed: 04/30/03

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M69811 304112-01	1.4	1.3	1.5	0.09
Method Blank	<0.05	<0.05	<0.05	<0.05

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**QUALITY ASSURANCE RESULTS
FROM TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Laboratory Code: 304226-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.48	0.48	0	0-20
Copper	mg/L (ppm)	0.75	0.75	0	0-20
Nickel	mg/L (ppm)	0.51	0.51	0	0-20
Zinc	mg/L (ppm)	0.06	0.08	a	0-20

Laboratory Code: 304226-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	Acceptance Criteria
Chromium	mg/L (ppm)	2	0.48	89	80-120
Copper	mg/L (ppm)	2	0.75	88	80-120
Nickel	mg/L (ppm)	4	0.51	88	80-120
Zinc	mg/L (ppm)	2	0.06	91	80-120

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Chromium	mg/L (ppm)	2	93	96	80-120	3
Copper	mg/L (ppm)	2	95	97	80-120	2
Nickel	mg/L (ppm)	4	93	95	80-120	2
Zinc	mg/L (ppm)	2	92	96	80-120	4

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

May 1, 2003

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

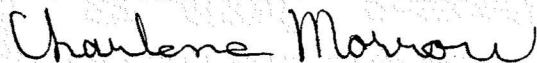
Dear Mr. Thompson:

Included are the results from the testing of material submitted on April 11, 2003 from the Metro Self Monitor, PO# M69811, F&BI 304112 project. There are 2 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Charlene Morrow
Chemist

Enclosures
ACU0501R.DOC

FRIEDMAN & BRUYA, INC.

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May 1, 2003

DUPLICATE COPY

INVOICE # 03ACU0501-1

Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M69811, F&BI 304112 - Results of testing
requested by Gerry Thompson for material submitted on April 11, 2003.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc
by Method 6010B @ \$80 per sample \$ 80.00

Amount Due **\$ 80.00**

FEDERAL TAX ID # (b) (6)

304112

SAMPLE CHAIN OF CUSTODY

CM 04/11/03 AI 1

Send Report To G. Thompson
 Company ALASKAN Copper Works
 Address 628 S. Harbor St
 City, State, ZIP Seattle WA 98134
 Phone # 206-382-8779 Fax # 206-382-4709

SAMPLERS (signature)

PROJECT NAME/NO.

PO #

METRO SELF Monitor

M69811

REMARKS

Page # _____ of _____

TURNAROUND TIME

☐ Standard (2 Weeks)☐ RUSH _____

Rush charges authorized by: _____

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples☐ Will call with instructions

Sample ID	Lab ID	Date	Time	Sample Type	# of containers	ANALYSES REQUESTED										Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	OC, Cyp, p, n				
M69811	01	4/11/03	8:00am	H ₂ O	1							✓				

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282
 Fax (206) 283-5044

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by:

Received by:

Relinquished by:

Received by:

G. ERIC Thompson

ACW

4/11/03

1:38 PM

Tara E. Debraff

F+BI

04/11/03

1:40 PM